



## LTO-3 A-Series

High Performance Tape Drive  
Enhanced for Professional Video

In professional video and rich media environments, video tape is no longer an efficient way to archive, and disk storage rapidly fills to capacity – especially with the transition to high-definition formats. The Quantum LTO-3 A-Series data tape storage products are the ideal archiving solution designed for file-based workflows, easy access, and long-term reliability.

The LTO-3 A-Series is the first data tape family specifically enhanced for professional video and broadcast requirements. It combines the convenience and accessibility of traditional video tape with the cost-effective performance, reliability and flexibility of Quantum data tape drive technology.

The LTO-3 A-Series offer up to 400 GB of removable networked storage and a tape-based file system that is MXF-aware, which means video tape-like access to subclips by timecode and fast access to metadata. With the LTO-3 A-Series each tape cartridge carries its own file system directory, allowing drag and drop access by applications and hardware running on multiple operating systems such as Windows and MAC OSX. This self contained file system simplifies content exchange and transfer between facilities and workgroups.

For sharing content and video assets among sites or workgroups and for long-term, reliable storage, the LTO-3 A family delivers the ideal archiving solution for the most sophisticated video environments. Best of all, it's brought to you by a proven leader in storage: Quantum.

**400GB NATIVE CAPACITY 68 MB/S  
TRANSFER RATE**

**TAPE-BASED FILE SYSTEM**

**NETWORK-ATTACHED**

**MXF-AWARE**

### FEATURES AND BENEFITS

- ❏ Made for Professional Video – Designed specifically for storing and sharing HD and SD assets
- ❏ Ease of Integration - With gigabit Ethernet and built-in FTP for network attached archiving, LTO-3 A-Series systems are accessible to any computer anywhere in your facility
- ❏ Among the first data drives to be “MXF-aware” for compatible content sharing and direct access to metadata and sub-clips
- ❏ Exceptional performance – At 68MB/s transfer rate, LTO-3 A-Series drives deliver faster than real time data transfers, even in HD
- ❏ Large Capacity - At 400GB native LTO Ultrium-3® cartridge capacity, you can store over 7 hours of HD or over 30 hours of SD on a single cartridge\*
- ❏ Proven Reliability – 30 year archive life
- ❏ Excellent Value – Leveraging volume manufacturing makes the LTO-3 A a cost effective media archive solution

\* Based upon 100Mb/sec HD or 25Mb/sec SD

## DRIVE CAPACITY AND PERFORMANCE

Drive Type	Cartridge Capacity Native (GB)	Drive Throughput Native (MB/sec)	Data Buffer (MB)	Average File Access Time (sec)
LTO-3	400	68	128	20

Interfaces: Gigabit Ethernet

## IP SERVICES

FTP server – with MXF service extensions  
 FTP Java client with partial restore support  
 HTTP Server – Cross platform configuration, status, and FTP client  
 SNMP monitoring

## MXF SERVICES

### Metadata

- File directory & basic MXF metadata available within 18 seconds of cartridge load
- Display basic metadata in FTP client and Windows Explorer™ properties
- Retrieve full MXF header

Partial restore of essence - (Generates new MXF file)

### Essences Supported:

Mpeg 2 "I" Frame, Mpeg 4 proxy, D10  
 (IMX 30-40-50 Mb/s), DvCam, DVCPro 25/50  
 DVCProHD 720P/50 & 720P/60

### Operational Patterns:

OP1A, OP-Atom

### Descriptive Metadata:

Scheme 1 DMS1

## PHYSICAL SPECIFICATIONS

Form Factor	Tabletop	2U rack
Width (in/mm)	6.88 / 174.75	16.75 / 425.5
Height (in/mm)	6.48 / 164.46	3.43 / 87.1
Length (in/mm)	12.6 / 320	22.38 / 568.5
Weight (lbs/kg)	14 / 6.35	54 / 24.5

## RELIABILITY

MTBF (hours): 250,000 @ 100% duty cycle  
 MCBF: 100,000 Load/Thread/Unload

## ENVIRONMENTAL

**Operating**  
 Temperature °F (°C): 50° to 104° (10° to 40°)  
 Humidity: 80% (non-condensing)  
 Altitude (ft. maximum): 10,000 feet MSL (at 25°C)  
**Non-Operating**  
 Temperature °F (°C): -40° to 149° (-40° to 66°) excluding media  
 Humidity (%): 10 to 95 (non-condensing)  
 Voltage (V): +5, +12  
 Power Consumption (W): Less than 36 W Maximum Peak, Less than 28 W Typical

## TAPE FORMAT SPECIFICATIONS

Recording Format: LTO Ultrium 3

## COMPATIBILITY

**Operating Systems:** Windows Desktop, Windows Server, UNIX, Linux, Mac OSX  
**Software/Hardware:** Go to [www.quantum.com](http://www.quantum.com) for the most up-to-date tested solutions

## TAPE SPECIFICATIONS

**Cartridge Dimensions:** 4.1" x 4.1" x 1.0" (104.1mmx104.1mmx25.4mm)  
**Archive Storage:** 30 years  
**Durability:** 5,000 load/unload cycles

## WARRANTY

**Tape:** Limited lifetime  
**Tape Drive:** 3 year Rapid Exchange and 5x9 Call Center Support

## Model Numbers and Descriptions

TC-L32BC-EY LTO3A, TABLETOP, GBIT/E, 5.25" Black, ERS COMPLIANT Includes power cord (term, SVT, 125V, 75in), Cat-6 Shielded Ethernet cable, Registration Warranty Card, Quick Start Card, Product Manual CD, Media Flyer, Ultrium 3 data cartridge, Cleaning cartridge

 For contact and product information, visit [quantum.com](http://quantum.com) or call 800-677-6268

# Quantum®

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## About Quantum

Quantum Corp. (NYSE:QTM) is the leading global storage company specializing in backup, recovery and archive. Combining focused expertise, customer-driven innovation, and platform independence, Quantum provides a comprehensive range of disk, tape, media and software solutions supported by a world-class sales and service organization. As a long-standing and trusted partner, the company works closely with a broad network of resellers, OEMs and other suppliers to meet customers' evolving data protection needs.